EXCURSION

WHICHER RANGE—DONNYBROOK SUNKLANDS

On October 9-11, 1976, a party of 15 Naturalists' Club members and four guests visited the Donnybrook Sunklands in order to expand on the survey work previously published by the Forcsts Department of Western Australia in its report, *Afforestation with Pines in the Donnybrook Sunklands—Statement of Intent*, September 1975. Specifically the party wished to consider the suitability of the houndaries proposed for the Whicher Range Reserve.

In its Statement of Intent the Department divided up the Sunklands area (State Forest No. 33) into three categories—reservations, proposed pine plantation cells and native hardwood areas. An account of this future management scheme of the Sunklands, with a map and colour illustrations, was given in the Department's periodical Forest Focus, No. 16, December 1975, 15 pp., which is, perhaps, more generally available than the Statement istelf.

The proposed pine areas had been selected following soil and site surveys and consist mainly of the deep sandy soil preferred for pine planting. The area retained as native hardwood forest will be managed by normal forestry techniques, including prescribed burning. The "reservations" include areas set aside primarily for recreation or for biological purposes. One of these is the Whicher Range, selected to preserve a major occurrence of the Mountain Marri (Eucalyptus haematoxylon).

Previously, in 1974, the Conservation Through Reserves Committee recommended that a fairly substantial area of the Whicher Range be declared a Class A Reserve for the conservation of flora and fauna, to be vested in the W.A. Wildlife Authority (see Fig. 1). The Forests Department in its *Statement of Intent* designated a rather smaller area as a Forest Reserve for Reercation, Catchment and Flora. Finally Cabinet accepted the recommendation made by the Environmental Protection Authority in 1976 to make the area a "Forest Park", primarily for recreation and for flora and fauna conservation, under the control of the Conservator of Forests.

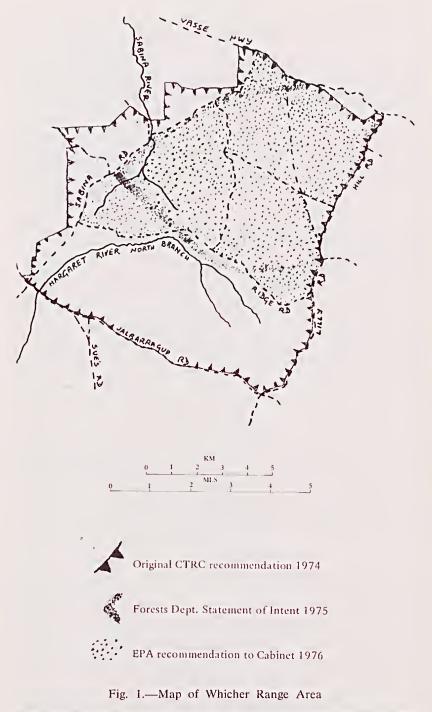
Method of survey:

The birds were recorded during walks into the centre of the Whicher block, along the Sabina River, and at various places along Sabina, Jalbaragup and Hill Roads (within the Whicher Range Reserve in the morning, and "clsewhere" in the afternoon). An attempt was made to survey the flora on a systematic grid basis. Groups of people drove to different areas, then eollected all species around their stopping places for 15 minutes. A comparison of the different collections should give an overall picture of the flora. Unfortunately the grid system proved not as complete as hoped, for members found the amount of work involved, in the time available, rather daunting. Nevertheless the results did not laek interest.

Results:

Birds (Appendix I). The results can scarcely be considered as having any real significance. But the species recorded may suggest which are the conspicuous birds of the area. Furthermore, as three of the 37 species noted, namely the Red-tipped Pardalote, the Horsfield Bronze Cuckoo and the Hooded Robin, had been overlooked in the surveys of the Forests Department (as recorded in the appendices of the *Statement of Intent*) it may be assumed that the avifauna of the Reserve may prove to be fairly considerable when adequate surveys are made. The low number of species noted outside of the designated Reserve area may be due to the fact that the walks were made in the afternoon.

Plants (Appendix II). A total of 200 species wcre collected, 71 of which had not been recorded in the *Statement of Intent*. Of this total 78% occur within the Whicher Range Reserve. The most important of those



(redrawn from Conservation Through Reserves Committee Report, 1974)

that do not occur within the reserve are associated with swamps, e.g. *Stirlingia latifolia*, which had not been previously recorded as far west, and isolated populations of *Xyris* sp., and *Dasypogon hookeri*.

The Whicher Range also has a number of plants that show unusual distributions, e.g. Dryaudra formosa and Conospermum accrosum, which are more common further east, and on the northern sandheaths, respectively. In addition the Range has a number of possible endemics including Grevillea brachystylis, Synaphea favosa and a large-flowered Darwinia sp. In fact all three Darwinia sp. found were of interest, as D. citriodora and D. vestita are atypical variants. The Synaphea population also shows interflowered Andersonia and a Calothamuus found near the Sabina River also appear to be undescribed species.

CONCLUSIONS

The Whicher Range is an important and significant area and should remain reserved for flora and fauna conservation. Elsewhere along the northern section of the Sunklands there is little of natural significance except for the Margaret River swamps. If pine planting should take place in that region care should be taken to avoid disruption of the swamps, either by direct disturbance or by increasing erosion and so turbidity of the water and siltation of the swampland.

ACKNOWLEDGEMENTS

I thank the staff of the Western Australian Herbarium for their assistance with the identification of specimens.

APPENDIX I

BIRDS

	(Recorded by Arthur	Fewster, John	Hutchinson and M. T. Millard)		
			noted within EPA	noted	
			Whicher Range reserve	elsewhere	
	Wedge-teiled Eagle		X		
	White-tailed Black Cockatoo		х		
	Red-capped Parrot		х		
	Twenty-eight Parrot		х		
	Elegant Parrot		Х		
	Fan-tailed Cuckoo		Х		
	Kookaburra		X		
	Sacred Kingfisher		Х		
	Bee-eater		×		
	Tree-Martin		X	х	
	Splendid Wren		×		
	Red-winged Wren Western Warbler		X		
	Broed-tailed Thornbill		×	х	
	Spotted Scrub-Wren		X		
	Weebill		×	x	
	Scarlet Robin		×	^	
	Yellow Robin		x		
	White-breasted Robin		â		
	Grey Fantail		x	x	
	Willy Wagtall		×	~	
	Golden Whistler		x		
	Western Shrike-Thrush		×		
	Spotted Pardalote		x		
	White-naped Honcyeater		X		
	Spinebill		х	х	
	Little Wattle-bird		X °		
	Squeaker		X		
	Western Magpie		х		
	Raven		х		
	Dusky Wood-swallow		X	х	
	Rufous Tree-creeper		X		
	Pallid Cuckoo		х		
	New Hollend Honeyeater		х		
1	Red-tipped Pardalote		×		
-	Horsfield Cuckoo		X		
"	Hooded Robin (female)		Х		

* denotes birds not previously recorded in the Statement of Intent as occurring in the area.

APPENDIX II

PLANTS		
(In this list of plants collected the nomenclature for		stralian Plants, ed. J. S.
Name Beard, 2nd edn., collecte	1970) d within EPA	collected outside EPA
		Whicher Range Reserve
GYMNOSPERMAE		
CYCADACEAE Magrazomia raidial Zamia		
Macrozamia reidiel, Zamia PODOCARPACEAE	х	x
Podocarpus drouynianus, Native plum	х	x
ANGIOSPERMAE—MONOCOTYLEDONEAE		
CYPERACEAE		
Lepidosperma angustatum Mesomelaena tetragona	x	X X
RESTIONACEAE	~	~
Loxocarya fiexuosa	X	x
XYRIDACEAE		x
LILIACEAE		^
* Burchardia umballata, Milkmaids	x	x
Johnsonia lupulina, Hooded Iily	х	x
Thysanotus multiflorus, Fringe Iily T. thrysoideus, Fringe Iily XANTHORRHOEACEAE	×	x
XANTHORRHOEACEAE		^
Dasypogon bromellifollus	х	x
D. hookeri	X	×
Kingia australis, Black gin Lomandra sp.	× ×	
Xanthorrhoea gracilis, Blackboy	x	
X. preissii, Blackboy	x	
HAEMODORACEAE		
Conostylis spp. IRIDACEAE	×	×
* Orthrosanthus laxus, Morning iris	x	
Patersonia occidentalis	х	x
P. umbrosa P. xanthina, Yellow flag	×	x
ORCHIDACEAE	×	^
* Caladenia deformis. Blue fairy orchid	x	x
 C. dilatata, Green spider orchid C. flava, Cowslip orchid C. latifolia, Pink fairy orchid 		×
* C. flava, Cowslip orchid	X	
* C. patersonli, White spider orchid	×	
G nana Pink tan orchio	x	
Diuris purdiei, Donkey orchid	X	
* Elythranthera brunonis, Purpla enamel orchid * E. emarginata, Pick enamel orchid	×	×
* Lyperanthus nigricans. Elephant's tongues	×	
 Lyperanthus nigricans, Elephant's tongues L. serratus, Ratile Beak orchid 	x	
Pierosiyns recurva, Jug orchid	×	
 P. vittata, Greenhcod orchid Thelymitra antennifera, Lemon orchid 	x	×
- I. crinata, Blue lady orchid	x	^
ANGIOSPERMAE—DICOTYLEDONEAE		
CASUARINACEAE		
Casuarina drummendiana C. fraseriana Shooak	x	×
C. fraseriana, Shooak C. humilis, Dwarf sheoak	x	~
PROTEACEAE		
Adenanthos barbigera, Stick-in-jug	x	x
A. melssneri A. obovata, Stick-in-jug	x	X X
Banksia attenuata, Candlestick Banksia B. grandis, Eull Banksia B. liicifolia, Holly leaved Banksia B. sphaerocarpa, Round fruited Banksia	x	x
B. grandis, Bull Banksia	х	×
B. Ilicifolia, Holly leaved Banksia B. pobacroparca, Reund fruited Pankoia		X X
Conospermum acerosum, Needle-leaved Smokabus	h x	^
C. caeruleum		x
C. flexuosum	Х	×
C. teretifoIlum Dryandra bipinnatifida	~	×
* D. formosa	x x	
D. nivea, Shaving-brush Dryandra Grevillea brachystylis	x	x
Grevillea brachystylis	х	
G. leptobotrya G. manglesioides	x	×
G. quercifolia	x x	×
Hakea ambigua	x	
H. amplexicaulis, Prickly Hakea	х	×
H. ceratophylla, Hornad-leaf Hakea	X	
H. Jasiantha, Woolly-flowered Hakea	x x	
* H. amplexicaulls, Prickly Hakea H. ceratophylla, Hornad-leaf Hakea H. cyclocarpa, Curved-fruit Hakea H. laslantha, Woolly-flowered Hakea H. ruscifolia, Candle Hakea	x	х

Isopogon sphaerocephalus, Drumsticks	×
Persoonia elliptica, Snooty-goggle	×
Isopogon sphaerocephalus, Drumsticks Persoonia elliptica, Snooty-goggle P. Iongifolia, Red Paperbark	х
Petrophile diversitolla	x
P. linearis	X X
P. setturiae P. squamata	X
* P. striata	x
Stirlingla latitolia, Bluebush	x
* S. teretifolia	
Synaphea favosa	x
* S. petiolaris	x
S. preissii	X
* S. sp. nov. Xylomelum occidentale, Forest pear	X X
SANTALACEAE	^
* Loptomeria cunninghamii	
LORANTHACEAE	
Nuytsia floribunda, W.A. Christmas tree	х
RANÚNCULACEAE	
 Clematis aristata, Travellar's Joy 	×
DROSERACEAE	
* Drosera gigantea, Giant sundew	
* D. spp. PITTOSPORACEAE	
* Billardiora variifolia	
* Marianthus candidus	
Mananthus candidus MIMOSACEAE	
Acacia alata	x
A. divorgens	
A. drummondii	
A. ? extensa	
A. gilbertii A. pulchella, Prickly Moses	
A. pulchella, Prickly Moses CAESALPINIACEAE	Х
Labichoa punctata	х
FABACEAE	~
Aotus villosa	
Bossiaea ornata	
* Chorizoma diversitolium, Twining flame-pea	x
Daviesia alternifolla	X
D. polyphylla	х
* D. cordata, Book-leaf bitter-pea	X
D. quadrilatera Dillevenia uncinata. Silky parrot pop	X
Dillwynia uncinata, Silky parrot-pea Gompholoblum burtonioides	X X
* G. knightianum	x
G. ovatum	x
* G. tomentosum	x
G. venustum, Handsome Wedge-pea	x
Hovea elliptica	x
H. trisporma	x
H. trisporma Kennedla coccinea, Coral vine	x
H. trisporma Kennedla coccinea, Coral vine K. stirlingil	x x
H. trisporma Kennedia coccinea, Coral vine K. stirlingil * Melilotus Indica, Melilot	X X X
H. trisporma Kennedia coccinea, Coral vine K. stirlingii * Melifotus Indica, Melilot Mirbelia dilatata	x x
 H. trisporma Kennedla coccinea, Coral vine K. stirilngii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii 	X X X X
H. trisporma Kennedla coccinea, Coral vine K. stirlingii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum S. medium	X X X
 H. trisporma Kennedla coccinea, Coral vine K. stirilngii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum S. medium S. racemulosum 	X X X X
H. trisporma Kennedla coccinea, Coral vine K. stirilingil Melilotus Indica, Melilot Mirbella dilatata Pultenaea andrewsil Sphaerolobium macrantnum S. medium S. racemulosum S. vimineum	X X X X
H. trisporma Kennedla coccinea, Coral vine K. stirlingii * Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaeroloblum macrantnum * S. medium * S. racemulosum * S. vimineum RUTACEAE	x x x x x
 H. trisporma Kennedla coccinea, Coral vine K. stirilngii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum S. racemulosum S. vimlneum RUTACEAE Boronia crenulata 	x x x x x x
H. trisporma Kennedia coccinea, Coral vine K. stirilngii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum S. medium S. racemulosum S. racemulosum RUTACEAE Boronia crenulata B. spathulata	x x x x x
H. trisporma Kennedla coccinea, Coral vine K. stirlingii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum * S. medium * S. racemulosum * S. vimineum RUTACEAE Boronia crenulata * B. spathulata * B. ? tornata	x x x x x x x
H. trisporma Kennedla coccinea, Coral vine K. stirilngil Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsil Sphaerolobium macrantnum S. racemulosum S. racemulosum S. vimlneum RUTACEAE Boronia crenulata B. spathulata B. ? tornata Crowea angustilolia	x x x x x x x x x
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 H. trisporma Kennedia coccinea, Coral vine K. stirilngii Melilotus Indica, Melilot Mirbelia dilatata Pultenaea andrewsii Sphaerolobium macrantnum S. medium S. racemulosum S. racemulosum RUTACEAE Boronia crenulata B. ? tornata Crowea angustifolia Eriostemon splcatus, Popper and salt TREMANDRACEAE Platytheca verticillata 	x x x x x x x x x
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DILLENIACEAE		
* Hibbertia Iasiopus		x
H. hypericoides H. perfoliata	X X	×
H. vadinata	^	x
H. vaginata H. sp. nov.	x	x
VIOLACEAE		
Hybantlius Iloribundus	X	
THYMELAEACEAE		
Pimelea rosea, Pink Banjine	×	×
P. spectabills P. suaveolens	×	x
MYRTACEAE		<u>^</u>
Agonis parviceps	х	x
Beaufortia sparsa		×
* Calothamnus gracilis		×
C. sanguineus, One-sided Bottlebrush	x	Х
* C. sp. nov. * Calytrix flavescens, Yellow star-flower	x	х
C. variabilis		x
* Darwinia citriodora, Lomon-scented myrth	e x	^
D. vestita	x	
D. vestita D. sp. nov.	x	
Eucalyptus calophylla, Marri	X	×
E. haematoxylon, Mountain Marri	X	×
E. marginata, Jarrah Hypocalymma angustifolium, White myrtle	x x	x x
H. robustum, Swan Rivor myrtle	×	~
Kunzea recurva	x	x
Leptospermum ellipticum	x	x
L. firmum		×
Melaleuca sp.	X	×
HALORAGACEAE		
Glischrocaryon aureum, Pop flower	х	Х
APIACEAE Platysace compressa	×	
* P. tenuissima	^	х
* Trachymone pilosa	×	~
EPACRIDACEAE		
Andersonia caerulea	×	x
A. longifolia	х	
A. sp. nov.	X	
Astroloma epacris Conostenhium pandulum Pasti flower	x	~
Conostephium pendulum, Pearl flower Leucopogon australis	×	X X
L. parvitiorus	A	x
L. verticillatus, Tassel shrub	×	x
L. sp.	x	
Lysinema ciliatum, Curry plant	x	
Sphenotoma capitatum		Х
LOGANIACEAÉ * Logania campanulata	Х	
Mitrasacme paradoxa	^	x
DICRASTYLIDACEAE		
Pityrodia bartlingli, Woolly dragon	x	
LENTIBULARIACEAE		
Polypompholyx multilida		х
LOBELIACEAE		
GOODENIACEAE	×	
Dampiera cuneata	x	х
D. sacculata		х
Goodenia caerulea	x	
Leschenaultia biloba, Blue Leschenaultia	×	×
Scaevola striata	X	
Velleia trinervis STYLIDIACEAE	x	
* Levenhookia pusilia, Midget Stylewort	×	
* Stylidium caespitosum	x	
* S. calcaratum, Ballerina triggerplant	x	x
* S. sp. aff. dichotomum	х	
* S. glaucum	×	
S. repens	x	Y
S. scandens, Climbing triggerplant S. schoenides, Cowkicks	×	×
ASTERACEAE	Х	^
* Craspedia unifiora, Billy buttons	×	
* Cryptostemma caligula, Capeweed	х	
Helichrysum bractoatum	x	х
* Hypochoerls radicata, Flatweed	¥.	
Lagenophora stipitata	List of Disst Operator, in-	Ferente Dependent
* denotes plant not included in Appendix II, Statement of	Intent 1975	Polesis Department
otatement of		M I HUSSEY

⁻B. M. J. HUSSEY